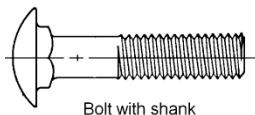


REFERENCE DOCUMENTS

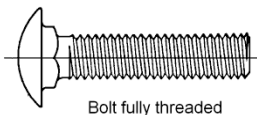
CNH STPA020	Fastener Finishes and Material Specifications
ISO 8678	Cup head square neck bolts with small head and short neck - Product grade B
ISO 888	Bolts screws and studs – Nominal lengths and thread lengths for general purpose bolts
ISO 898-1	Mechanical properties of fasteners made of carbon steel and alloy steel
ISO 6157-3	Fasteners - Surface Discontinuities

When a standard is referenced in a drawing or specification, it is understood that the reference is to the latest revision of the standard, unless stated otherwise.

For cross-reference listing of company part numbers, go to [CNH Catalogue](#).



Bolt with shank



Bolt fully threaded

Thread Length:	ISO 888
Material:	Class 8.8 ISO 898-1
Finish:	Zinc Dichromate Yellow (ZND) per STPA020 and MAT0310
Head dimensions:	ISO 8678

Typical part description for BOM's and CAD drawings:

BOLT, RDH SHT SQNK FULL M12X30 8.8 ZND

Bolts and screws shall be free from burrs, seams, laps, loose scale, irregular surfaces and any defects affecting their serviceability (ISO 6157-3).

AUTHOR	APPROVED BY	ECO	PART NUMBER
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Standard Part

Short Sqr Neck Rnd Head Bolts – Metric Coarse Thread Class 8.8 ZND - Preferred

STPB770

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Rev T

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Table 1. Preferred Metric Short Neck Carriage Bolts

	LENGTH	Bolt Nominal Diameter					
		6	8	10	12	16	20
	12	87622768					
	16	86512439	86619060				
Fully Threaded	20	9706703	86507486	120041			
	25	374891**	308761**	86633356	374895**		
	30	86512441	120038	86512446	120044		
	35	86639146	86512443	84467161	87035385		
	40	412327	86512444	374892	328754	86595832	
	45				334966	51592834	
	50	412364	120039	350459	334682	412185	
Bolt	55				87033290		
With Shank	60	412454**	86512445	86512447	87337888	87552612	87013793
Lengths not available commercially. See STPB780 for Non-Preferred Parts.	70				338263	120047	
	80		366046	412189	300662	120048	
	90			87301279	334070	120049	
	100			87646163	47480247	322362	
	110				323121		
	120				412339	300663	
	140						
	150						
	160						
Bolt Nominal Diameter		6	8	10	12	16	20
Coarse Thread Pitch		1	1.25	1.5	1.75	2	2.5
Length of thread for							
Bolt length to 125		18	22	26	30	38	46
Bolt length 126 to 200		24	28	32	36	44	52
Bolt length: >200		37	41	45	49	57	65
Sq Neck width across flats - max		6.48	8.58	10.58	12.70	16.70	20.84
Sq Neck height - max		3	3	4	4	5	5
Round head dia. - max.		14.2	18.0	22.3	26.6	35.0	43.0
Round head height - max.		3.6	4.8	5.8	6.8	8.9	10.9

Part numbers marked with (**) are controlled by this standard or drawing. Purchasing/Supplier to confirm with the local receiving plant prior to shipping.